

STATEMENT OF WORK

Dam, Diversion (348)

West Virginia

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

- 1) Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a) Identify, discuss and document client needs and recommended method of resolution.
 - b) Practice purpose(s) as identified in the conservation plan.
 - c) List of required permits to be obtained by the client as applicable.
 - d) Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A- Engineering Activities Affecting Utilities 503.00 through 503.06 and 210-VI-EFH, Amendment WV-45, Nov. 1996- WV5-23 Engineering Field Handbook) and all engineering activities affecting utilities. This includes contacting and documenting MISS UTILITY 1-800-248-4848 according to West Virginia Chapter 24-C, Underground Facility Damage Prevention act. The law makes it a requirement to notify the state of West Virginia before any excavation or demolition activities are done.
 - e) Plans or drawings documenting the applicable NRCS Conservation Standards Practice standards (stating conservation practice name and number and job classification).
 - f) Criteria related assumptions, design, computations and analyses necessary to develop plans and specifications including but not limited to:
 - i) Investigation and survey
 - ii) Geology and Soil Mechanics (NEM subpart 531a and WV5-23(3) for all practices)
 - iii) Location, centerline profile, x-sections, alignment, width, and sideslope
 - iv) Structural
 - v) Stability (permissible velocity)
 - vi) Hydrology/Hydraulics
 - vii) Vegetation
 - viii) Environmental Concerns
 - ix) Safety Considerations (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.3 through 512.32, WV 210 Amendment WV 26, Safety During Geologic Investigations).
- 2) Written plans and specifications including topographic surveys, sketches and drawings shall be provided to the client adequately describing the requirements to install the practice and obtain necessary permits.
- 3) Identify planned site location and fields where the practice is to be applied.
- 4) Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3), 210-VI-(EFH) WV5 amendment 45 ("Preparation of Engineering Plans" – Design and Construction Support Data for Conservation Practices).
- 5) Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 – 512.32
- 6) Operation and maintenance plan.
- 7) Design modifications during installation as required.

Note: Design of practice will be in compliance with practice standard and applicable criteria for the appropriate purpose(s). Practice specification will include the information listed in the "Plans and Specifications" and "Operation and Maintenance" section of the conservation practice standard. The design will document the clients' decisions using narrative and/or jobsheet.

INSTALLATION

Deliverables

1. Pre-installation conference with client to review problem, solution alternative and decisions.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.

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4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used (NEM Part 512, Subchapter D Quality Assurance Activities, 512.33)
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, and local laws, regulations and NRCS policies during installation.
7. Certification that the application process and materials meets design and permit requirements.

Note: Provide written documentation of any modification of the approved design. Certify that the modification meets practice standard on appropriate NRCS form and/or letter of certification as applicable. At a minimum, documentation will include quantities and amounts. The location of the applied practice will be identified on the conservation plan map for non-structural practices.

CHECK OUT

Deliverables

1. As-Built documentation
 - a. "Red-line" construction drawings including but not limited to documentation of final construction, alignment, location, standards, specifications and implementation.
 - b. Extent of practice units applied.
 - c. Final quantities.
2. Records of application and the extent of the practice units applied
3. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 © (1) and
4. Progress reporting

Note: Meet with client to review practice operation and maintenance. Certify the conservation practice has been installed according to practice design and specifications using a letter of certification or appropriate NRCS form.

REFERENCES

- WV NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Dam, Diversion 348
- 210-VI-EFH WV5 Preparation of Engineering Plans
- 210-V-NEM Part 505 – Non-NRCS Engineering Services
- NRCS National Engineering Manual (NEM)
- WV Engineering Field Handbook
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook